



Exposure of Air Force Veterans to Agent Orange in Vietnam

Health problem

- Air Force personnel in "Operation Ranch Hand" aerially sprayed Agent Orange, which was contaminated with dioxin, in Vietnam.
- Scientists had estimated the amount of exposure of these veterans, but there was no way to verify these estimates, since no method existed to measure dioxin in blood.

Lab response

- The lab developed a method to measure dioxin in blood—the first lab in the world to have this capacity.
- Blood dioxin levels of a sample of Ranch Hand veterans showed that the previous estimates did not accurately reflect dioxin exposure.
- Therefore, the lab measured blood dioxin levels in all 1200 Ranch Hand veterans and a control group of about 600 veterans.

Health impact

- Without the blood dioxin measurement, the Air Force health study would have been scientifically invalid—wasting more than \$140 million.
- The Air Force can now validly relate dioxin exposure to disease and properly care for Air Force Ranch Hand veterans.